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CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): **MICHAEL K. REEVES**

Docket No.

S-307

Serial No.

Filing Date

Examiner

Group Art Unit

7/6/10 U.S. PTO
09/08/97

Invention: **WHEEL RETENTION DEVICE**

I hereby certify that this **New Application Transmittal (and the documents & fees listed as enclosed therein)**
(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under

37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231

on

Sept 9, 1997
(Date)

James H. Walters

(Typed or Printed Name of Person Mailing Correspondence)

(Signature of Person Mailing Correspondence)

EM268406129US

("Express Mail" Mailing Label Number)

Note: Each paper must have its own certificate of mailing.

**NEW UTILITY PATENT APPLICATION TRANSMITTAL
(Small Entity)**

(to be used for new applications only)

Docket No.
S-307

Total Pages in this Submission

32

**TO THE ASSISTANT COMMISSIONER FOR PATENTS
Washington, D.C. 20231**

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53 is a new utility patent application for an invention entitled:

WHEEL RETENTION DEVICE

and invented by:

Michael K. Reeves

Enclosed are:

Application Elements

1. ☒ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 15 (fifteen) pages and including the following:
 - ☒ Abstract of the Disclosure
 - ☒ Title of the Invention
 - ☐ Cross References to Related Applications *(if applicable)*
 - ☐ Statement Regarding Federally-sponsored Research/Development *(if applicable)*
 - ☐ Reference to Microfiche Appendix *(if applicable)*
 - ☒ Background of the Invention
 - ☒ Brief Summary of the Invention
 - ☒ Brief Description of the Drawings *(if drawings filed)*
 - ☒ Detailed Description
 - ☒ Claim(s) as Classified Below
3. ☒ Drawing(s) *(when necessary as prescribed by 35 USC 113)*
 - ☐ Formal ☐ Informal
 - Number of Sheets 3 (three)
4. ☒ Declaration
 - ☒ Executed ☐ Unexecuted ☒ With Power of Attorney ☐ Without Power of Attorney

NEW UTILITY PATENT APPLICATION TRANSMITTAL
(Small Entity)

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Application Elements (Continued)

5. ☐ Genetic Sequence Submission *(if applicable, all must be included)*
- ☐ Paper Copy
- ☐ Computer Readable Copy
- ☐ Statement Verifying Identical Paper and Computer Readable Copy

Accompanying Application Parts

6. ☒ Assignment Papers
7. ☐ Computer Program in Microfiche
8. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
9. ☐ Petition
10. ☐ Preliminary Amendment
11. ☐ Proprietary Information
12. ☒ Acknowledgment postcard
13. ☒ Small Entity Statement(s) - Specify Number of Statements Submitted: 1 (one)
14. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail (Specify Label No.): EM268406129US
15. ☐ Certified Copy of Priority Document(s) *(if foreign priority is claimed)*
16. ☐ English Translation Document *(if applicable)*

**NEW UTILITY PATENT APPLICATION TRANSMITTAL
(Small Entity)**

(to be used for new applications only)

Docket No.
S-307

Total Pages in this Submission

32

Accompanying Application Parts (Continued)

17. ☒ Additional Enclosures *(please identify below)*:

Assignment Recordation Cover Sheet

Fee Calculation and Transmittal

CLAIMS AS FILED

For	#Filed	#Allowed	#Extra	Rate	Fee
Total Claims	20	- 20 =	0	x \$11.00	\$0.00
Indep. Claims	3	- 3 =	0	x \$40.00	\$0.00
Multiple Dependent Claims (check if applicable) <input type="checkbox"/>					\$0.00
BASIC FEE					\$385.00
OTHER FEE <i>(specify purpose)</i> Assignment recordation fee					\$40.00
TOTAL FILING FEE					\$425.00

- ☒ A check in the amount of \$425.00 to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. _____ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____ as filing fee.
 - ☐ Credit any overpayment.
 - ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
 - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

Dated:

Sept 9, 1997

Signature

James H. Walters, Reg. No. 35,731
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CC:

WHEEL RETENTION DEVICE

Background of the Invention

This invention relates to a wheel retention device
5 and, more particularly, to a wheel retention device
that quickly and easily secures a wheeled vehicle to a
vehicle rack for transport of the wheeled vehicle.

Conventional vehicle transport racks require a
wheeled vehicle, such as a bicycle, a motorcycle or the
10 like, to be secured to the rack by use of straps,
stretchable cords, or pivotable members. Straps and
stretchable cords may be unwieldy to use due to their
length, may be easily deteriorated by environmental
elements, may be lost if stored separately from the
15 vehicle rack and may cause damage to the frame of the
wheeled vehicle, such as by chipping the frame's paint.
Pivotable members generally include metallic pivot pins
which may become deteriorated by environmental
elements, may break due to the large shear forces
20 applied to the pins during use and may open during use
thereby allowing the wheeled vehicle to fall from the
rack during transport. Moreover, conventional
pivotable members may not easily fit between the spokes
of a wheel during positioning of the device thereby
25 rendering the pivotal members difficult to use.

Summary of the Invention

In accordance with the invention, a vehicle
transport rack including a wheel retention device is
30 provided wherein the wheel retention device includes a
base adapted for mounting to a main support of the rack
and a retention ring secured to the base. The base
includes an open cavity having a central axis, the open
cavity sized to receive a portion of a wheel of the
35 wheeled vehicle therein. The retention ring is

securely mounted on the base and is adapted to rotate generally around the central axis of the base so as to enclose the cavity and secure the wheel therein, thereby securing the wheeled vehicle to the rack.

5 Accordingly, it is an object of the present invention to provide a rack including an improved wheel retention device that facilitates quick and easy securing of a wheeled vehicle to the rack.

10 It is a further object of the present invention to provide a rack including an improved wheel retention device that is durable and that withstands harsh environmental conditions without deterioration.

15 It is yet another object of the present invention to provide a rack including an improved wheel retention device that is stored on the rack when not in use.

20 It is still another object of the present invention to provide a rack including an improved wheel retention device that contacts only a wheel of the wheeled vehicle during transport.

25 It is yet a further object of the present invention to provide a rack including an improved wheel retention device that remains closed during use and which is easily placed through the spokes of a wheel when positioning the device.

30 The subject matter of the present invention is particularly pointed out and distinctly claimed in the concluding portion of this specification. However, both the organization and method of operation, together with further advantages and objects thereof, may best be understood by reference to the following description taken in connection with accompanying drawings wherein like reference characters refer to like elements.

Brief Description of the Drawings

FIG. 1 is a side elevational view of a vehicle transport rack showing the rear wheel of a bicycle secured within a rear wheel well of a rack by the wheel retention device;

FIG. 2 is a partial cut-away cross sectional view of the wheel retention device in a closed configuration taken along line 2—2 of FIG. 1;

FIG. 3 is a perspective view of the wheel retention device in an open configuration;

FIG. 4 is a cross sectional view of the wheel retention device taken along line 4—4 of FIG. 3; and

FIG. 5 is a perspective view of one section of the base of the wheel retention device.

Detailed Description

The system according to a preferred embodiment of the present invention comprises a base adapted for mounting to a vehicle transport rack and a retention ring rotatably secured to the base. Referring to FIG. 1, which is a side elevational view of a vehicle transport rack showing the rear wheel of a bicycle secured within a rear wheel well of a rack by the wheel retention device, a transport rack 10, such as a bicycle rack, is shown with a bicycle 12 secured therein. Bicycle 12 includes a frame 14, a front wheel 16 and a rear wheel 18, as is well known. Each of wheels 16 and 18 includes, respectively, metallic rims 20 and 22 including spokes 23 and 25 and wheel tires 24 and 26, usually made of rubber or the like. Frame 14 may be a man's bicycle frame including a crossbar 28 or a woman's bicycle frame that includes a downwardly sloping crossbar (not shown). For purposes of illustration, a bicycle is shown but those skilled in the art will understand that a variety of wheeled

vehicles may be secured to a rack by the present invention.

Still referring to FIG. 1, rack 10 includes a mounting bracket 30 for securing the rack to a transport vehicle (not shown). In the preferred embodiment the transport vehicle is a passenger vehicle including a bumper having a hitch secured thereto and wherein the rack is releasably secured to the hitch. A main support 32 of the rack is generally centered on and secured to mounting bracket 30 and extends generally the length of a standard adult bicycle. Main support 32 includes a first end region 34 having a wheel well 36 secured thereto and a second end region 38 having a wheel retention device 40 movably secured thereto. Second end region 38 is recessed, or channel shaped, to receive a wheel of the bicycle and, therefore, may be referred to as a rear wheel well. During transport of a bicycle, front wheel 16 generally extends downwardly onto wheel well 36 and is secured against movement in all directions by an extensible arm 50. The extensible arm is pivotally secured to main support 32 and contacts the front wheel only on wheel tire 24. Those skilled in the art will understand that the bicycle may also be positioned with the rear wheel within wheel well 36 and the front wheel within second end region 38.

Referring to FIG. 2, which is a partial cut-away cross sectional view of the wheel retention device in a closed configuration taken along line 2—2 of FIG. 1, the wheel retention device will be described. Wheel retention device 40 includes a base 52 comprised of two mirror image sections 54 and 56 (only section 54 can be seen in FIG. 2) secured together by fasteners 58. Base 52 includes a generally circular outer surface 60 and an inner surface 62 that defines an open cavity 64 extending through the base. Outer surface 60 has a

radius of approximately 2.25 in (5.6 cm). Inner surface 62 includes an upper section 66 having generally parallel side walls 68 and a lower section 70 having generally perpendicular lower walls 72 with a length 73 of approximately 2.0 in (5.0 cm). Lower walls 72 define a "V-shaped" cross section having shoulders 74, the "V-shaped" cross section mating with the "V-shaped" cross section of main support 32. Shoulders 74 define a recess 75 having a width 77 of approximately 0.125 in (0.31 cm). As will be understood by those skilled in the art, main support 32 and lower section 70 of the base may be of any cross sectional shape such that the base is frictionally secured to the main support by shoulders 74. Other cross sectional shapes may include a "U" shape and a square shape design. In other embodiments, the base may be secured to the main support by any means as known in the art.

Inner surface 62 of the base may also comprise a flexible friction device 76 including resilient tabs 78 and 79 (only tab 78 can be seen in FIG. 2). The tabs flex in the direction of arcs 82 and 84 (FIG. 3), respectively to frictionally engage an undersurface 80 of main support 32. The resilient tabs are nominally biased upwardly toward the open cavity thereby engaging the main support and preventing lateral movement of the wheel retention device along the main support. The frictional force exerted by tabs 78 and 79 and by shoulders 74 on main support 32 is easily overcome by manual movement of the base along the main support. Accordingly, the base is easily manipulated into position along the length of the main support so as to accommodate a variety of bicycle sizes. The frictional force exerted by tabs 78 and 79 and by shoulders 74 is sufficient, however, so as to secure the base in a

stationary position on the main support during transport of a wheeled vehicle.

Still referring to FIG. 2, open cavity 64 defines approximately a ninety degree angle 86 with respect to a central axis 88 of the base. Moreover, open cavity 64 defines a width 90 of approximately 2.35 in (5.9 cm) which is sufficient to receive therein a portion of a bicycle wheel. As will be understood by those skilled in the art, rack 10 and wheel retention device 40 may be sized so as to receive therein the wheel of a motorcycle, an all-terrain vehicle, a passenger vehicle or any like wheeled vehicle.

Wheel retention device 40 further includes a retention ring 92 that defines a generally circular collar having an inner surface 94 and an outer surface 96. The radius of inner surface 94 with respect to axis 88 is approximately 2.0 in (5.0 cm). In the closed position, as shown in FIG. 2, the retention ring closes open cavity 64 of the base such that a tire secured within the open cavity is secured within the base. Inner surface 94 includes a plurality of chamfered, or beveled, surfaces 98 that nominally mate with chamfered surfaces 100 (FIG. 5) of base 52. Each of chamfered surfaces 98 and 100 has a length 102 of approximately 0.5 in (1.2 cm) and extend radially approximately 20° with respect to axis 88. Outer surface 96 preferably includes ribbed portions 104 and outwardly extending thumb grips 106 so as to facilitate manual rotational movement of the retention ring around base 52. Ring 92 also includes an opening 108 and an open interior region 110 that is coaxially aligned with axis 88 when the retention ring is mounted on the base.

The retention ring preferably is manufactured of a somewhat resilient material, such as engineered plastic, so that the ring may flex with respect to axis

88. Accordingly, the resiliency of the ring in combination with opening 108 facilitates chamfered surfaces 98 of the ring to move over chamfered surfaces 100 of the base when the ring is manually rotated about the base. The resiliency of the retention ring, together with the frictional force exerted by the ring on the base, however, secures the ring in a stationary position on the base in the absence of an external manual rotational force.

Referring to FIG. 3, which is a perspective view of the wheel retention device in an open configuration, opening 108 of retention ring 92 preferably defines a ninety degree angle 112 with respect to central axis 88 of the base, angle 112 being coextensive with angle 86 of the base when the ring is in an open position. In other words, outer surface 60 of the base and ring 92 each extend approximately 270° around axis 88 of the base. Accordingly, in the open position, when the opening of the ring is aligned with the open cavity of the base, a wheel may be placed within the open cavity of the base.

Referring to FIG. 4, which is a cross sectional view of the wheel retention device taken along line 4—4 of FIG. 3, outer surface 60 of base 52 includes a groove 120 that defines a lower surface 122 comprised of chamfered surfaces 100 and inwardly extending portions 124 that define ring retention shoulders 126. Shoulders 126 are separated by a distance 123 of approximately 0.83 in (2.1 cm). Retention ring 92 includes a lower flange region 125 that is captured by shoulders 126 and an upwardly extending grip portion 144 having a width 146 which is approximately 0.38 in (0.95 cm), and that is unhindered by shoulders 126 of the base. The radius of the outer surface of flange region 126 with respect to axis 88 is approximately

2.25 in (5.6 cm). A width 127 of groove 120 is slightly larger than a width 129 of the lower flange region of the ring, which is approximately 0.75 in (1.9 cm), so that the ring is retained within the groove by shoulders 126. The height 131 of the retention ring is approximately 0.75 in (1.9 cm) as measured from the bottom surface of lower flange region 125 to the top of thumb grips 106. Accordingly, to assembly the wheel retention device, retention ring 92 should be placed between mirror image sections 54 and 56 of the base, and then the mirror image sections should be secured together with fasteners 58. Shoulders 126 preferably are spaced from lower surface 122 a distance 128 of approximately 0.3 in (0.75 cm) that is sufficient to allow flexing of the ring as it rotates around the base such that chamfered surfaces 98 of the ring are free to move over chamfered surfaces 100 of the base. Distance 128 is not sufficient, however, to allow the ring to be dislodged from the base when the retention device is in the assembled configuration. Accordingly, retention ring 92 is not easily removed from the base and the ring is usually stored on the base when the rack is not in use.

Referring to FIG. 5, which is a perspective view of one section of the base of the wheel retention device, one half of chamfered surfaces 100 and a single shoulder 126 of groove 120 are clearly shown. Each of sections 54 and 56 (only section 56 is shown in FIG. 5) include an internal region 130 that includes a female recessed ridge 132 and a male extending ridge 134 such that when sections 54 and 56 are placed facing one another, ridges 132 and 134 of the mirror image sections prevent rotation of the sections with respect to each another. Rotation between the two mirror image sections is further prevented by extending surfaces 136

and 138 and by fasteners 58 (FIG. 3) secured within receptacles 140. The use of mirror image sections facilitates ease of manufacturing and permits customers to easily disassemble and reassemble the retention device if desired.

Referring again to FIG. 3, in the preferred embodiment, base 52 has a width 150 of approximately 6 in (15 cm) and a thickness 152 of approximately 2.5 in (6.3 cm). The base and retention ring can be manufactured in any size, however, to accommodate wheels of varying sizes. The base preferably is manufactured of engineered plastic but may also be manufactured of any durable material such as metal or stiff rubber.

Referring again to FIGS. 1 and 2, the method of securing a wheeled vehicle to the rack will be described. The base is first secured on main support 32 of the rack by sliding the base on second end region 38 of the "V-shaped" channel. The retention ring is moved to the open position so that opening 108 is aligned with open cavity 64 of the base. The first wheel of the wheeled vehicle is then placed in wheel well 36 and the second wheel of the wheeled vehicle is placed in the "V-shaped" channel of main support 32. Extensible arm 50 is moved upwardly to secure the first wheel in wheel well 36. The base is then manually moved along the length of the main support until the base is positioned below the portion of the second wheel seated within main support 32. A sufficient force must be exerted on the base to overcome the frictional forces of shoulders 74 and tabs 78 and 79 of the base on the main support. The second wheel may then be slightly rotated about its axle 154 such that the retention ring may be rotated around the wheel rim without contacting the spokes of the wheel. The

retention ring is then gripped by thumb grips 106 and rotated with respect to the base such that the ring encloses cavity 64, thereby securing the second wheel to the main support. As the retention ring is rotated, shoulders 74 and tabs 78 and 79 prevent rotational movement of the base with respect to the main support. A sufficient force must be exerted on the ring to overcome the frictional forces of chamfered surfaces 98 and the resiliency of the ring as it is moved over chamfered surfaces 100 of the base.

Accordingly, the wheel retention device of the present invention is easy to use, is not deteriorated by environmental conditions, is not easily lost and does not contact a frame of the wheeled vehicle. Moreover, the wheel retention device does not include pivot pins that may break during use, does not inadvertently move to an open position during transport of a wheeled vehicle, and does not contact spokes of the wheel during positioning of the retention ring.

While a preferred embodiment of the present invention has been shown and described, it will be apparent to those skilled in the art that many changes and modifications may be made without departing from the invention in its broader aspects. The appended claims are therefore intended to cover all such changes and modifications as fall within the true spirit and scope of the invention.

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Claims

1. A wheel retention device comprising:
a base adapted for mounting on a rack and
including an open cavity having a central axis, said
5 open cavity being sized to receive a portion of a wheel
therein; and
a retention ring mounted on said base, said
retention ring adapted to rotate generally around said
central axis so as to enclose said cavity and secure a
10 wheel therein.
2. A wheel retention device according to claim 1
wherein said open cavity is sized to receive a portion
of a rim and a tire of a bicycle wheel therein.
15
3. A wheel retention device according to claim 1
wherein said base includes a generally cylindrical
outer surface and wherein said retention ring is
adapted to rotate generally around said cylindrical
20 outer surface.
4. A wheel retention device according to claim 3
wherein said retention ring extends circumferentially
approximately 270° around said central axis.
25
5. A wheel retention device according to claim 3
wherein said outer surface includes a groove formed
therein, said retention ring being rotationally mounted
within said groove.
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6. A wheel retention device according to claim 5
wherein said groove includes beveled surfaces and
wherein said retention ring includes mating beveled
surfaces such that the retention ring is nominally
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positioned with said mating beveled surfaces aligned with said beveled surfaces.

7. A wheel retention device according to claim 1
5 wherein said open cavity includes a shoulder so as to mount said base on said rack.

8. A rack for securing a wheeled vehicle therein, comprising:

10 a first wheel well adapted for receiving a first wheel of the wheeled vehicle therein;
a second wheel well operatively connected to said first wheel well, said second wheel well comprising a channel; and
15 a wheel retention device including a base adapted for mounting on said channel and a retention ring mounted on said base, said retention ring adapted to rotate with respect to said base so as to retain a second wheel of a wheeled vehicle within said base
20 thereby securing the wheeled vehicle to the rack.

9. A rack for securing a wheeled vehicle according to claim 8 wherein said base includes a central opening extending therethrough, said central
25 opening adapted for receiving a wheel therein.

10. A rack for securing a wheeled vehicle according to claim 9 wherein said retention ring is adapted to rotate with respect to said base so as to enclose said
30 central opening thereby securing a wheel therein.

11. A rack for securing a wheeled vehicle according to claim 8 wherein said base includes a periphery and a groove formed therein, said retention
35 ring being mounted within said groove.

12. A rack for securing a wheeled vehicle according to claim 11 wherein said groove includes beveled surfaces and wherein said retention ring includes mating beveled surfaces such that the retention ring is nominally stationarily positioned with respect to said base.

13. A rack for securing a wheeled vehicle according to claim 8 wherein said retention ring extends circumferentially approximately 270° about a central axis of said base.

14. A rack for securing a wheeled vehicle according to claim 9 wherein said central opening includes a shoulder so as to mount said base on said channel.

15. A method of securing a wheeled vehicle to a rack comprising the steps of:

placing a first wheel of the wheeled vehicle in a first wheel well of the rack;

placing a second wheel of the wheeled vehicle in a second wheel well of the rack, said second wheel well having a wheel retention device mounted thereon;

rotating a retention wheel of said wheel retention device with respect to a base of said wheel retention device so as to retain the wheel within the base and thereby secure the wheeled vehicle to the rack.

16. A method of securing a wheeled vehicle to a rack according to claim 15 wherein said base includes a central cavity extending therethrough, said central cavity adapted for receiving a wheel therein.

17. A method of securing a wheeled vehicle to a rack according to claim 16 wherein said retention ring is adapted to rotate with respect to said base so as to enclose said central cavity.

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18. A method of securing a wheeled vehicle to a rack according to claim 15 wherein said base includes a periphery and a groove formed therein, said retention ring being mounted within said groove.

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19. A method of securing a wheeled vehicle to a rack according to claim 18 wherein said groove includes beveled surfaces and wherein said retention ring includes mating beveled surfaces such that the retention ring is nominally stationarily positioned with respect to said base.

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20. A method of securing a wheeled vehicle to a rack according to claim 15 wherein said retention ring extends circumferentially approximately 270° about a central axis of said base.

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Abstract of the Disclosure

A wheel retention device is provided that includes a base adapted for mounting to a vehicle transport rack and a retention ring secured to the base. The base includes an open cavity having a central axis, the open cavity sized to receive a portion of a wheel of the wheeled vehicle therein. The retention ring is securely mounted on the base and is adapted to rotate generally around the central axis of the base so as to enclose the cavity and secure the wheel therein thereby securing the wheeled vehicle to the rack.

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Docket No.
S-307

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

WHEEL RETENTION DEVICE

the specification of which

(check one)

☒ is attached hereto.

☐ was filed on _____ as United States Application No. or PCT International Application Number _____ and was amended on _____ (if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

(Number)

(Country)

(Day/Month/Year Filed)

☐

Express Mail #E11062406/6931

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

_____ (Application Serial No.)	_____ (Filing Date)
_____ (Application Serial No.)	_____ (Filing Date)
_____ (Application Serial No.)	_____ (Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112. I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status) (patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status) (patented, pending, abandoned)
_____ (Application Serial No.)	_____ (Filing Date)	_____ (Status) (patented, pending, abandoned)

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. *(list name and registration number)*

James H. Walters, Reg. No. 35,731

John P. Dellett, Reg. No. 18,795

Ingrid M. McTaggart, Reg. No. 37,180

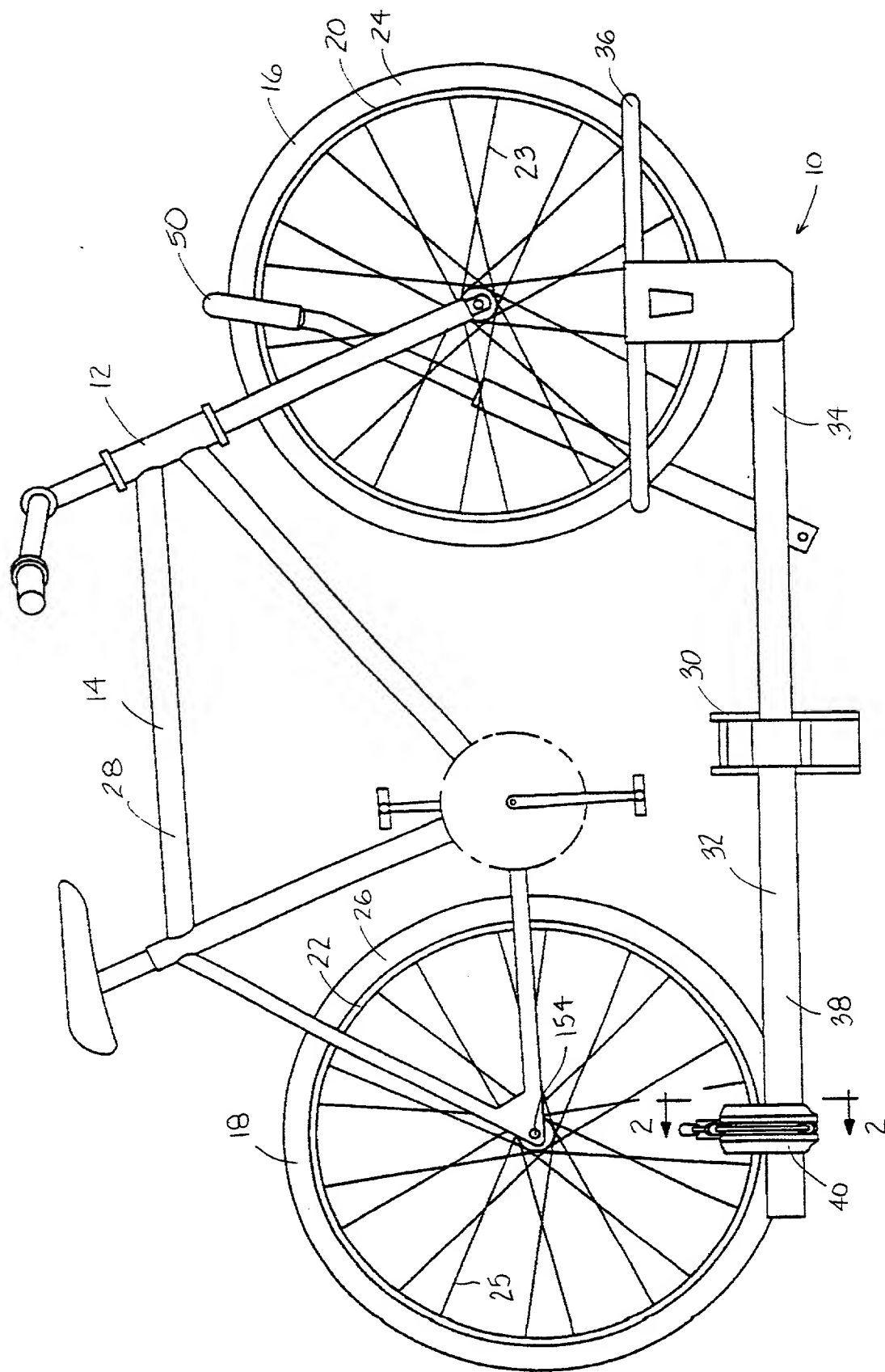
Send Correspondence to: **DELLETT AND WALTERS**
310 S. W. Fourth Avenue, Suite 1101
Portland, Oregon 97204

Direct Telephone Calls to: *(name and telephone number)*
James H. Walters (503) 224-0115

Full name of sole or first inventor Michael K. Reeves	
Sole or first inventor's signature <i>Michael K Reeves</i>	Date 9/8/97
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Woodinville, Washington 98072	

Full name of second inventor, if any	
Second inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

Express file # 21166840610739



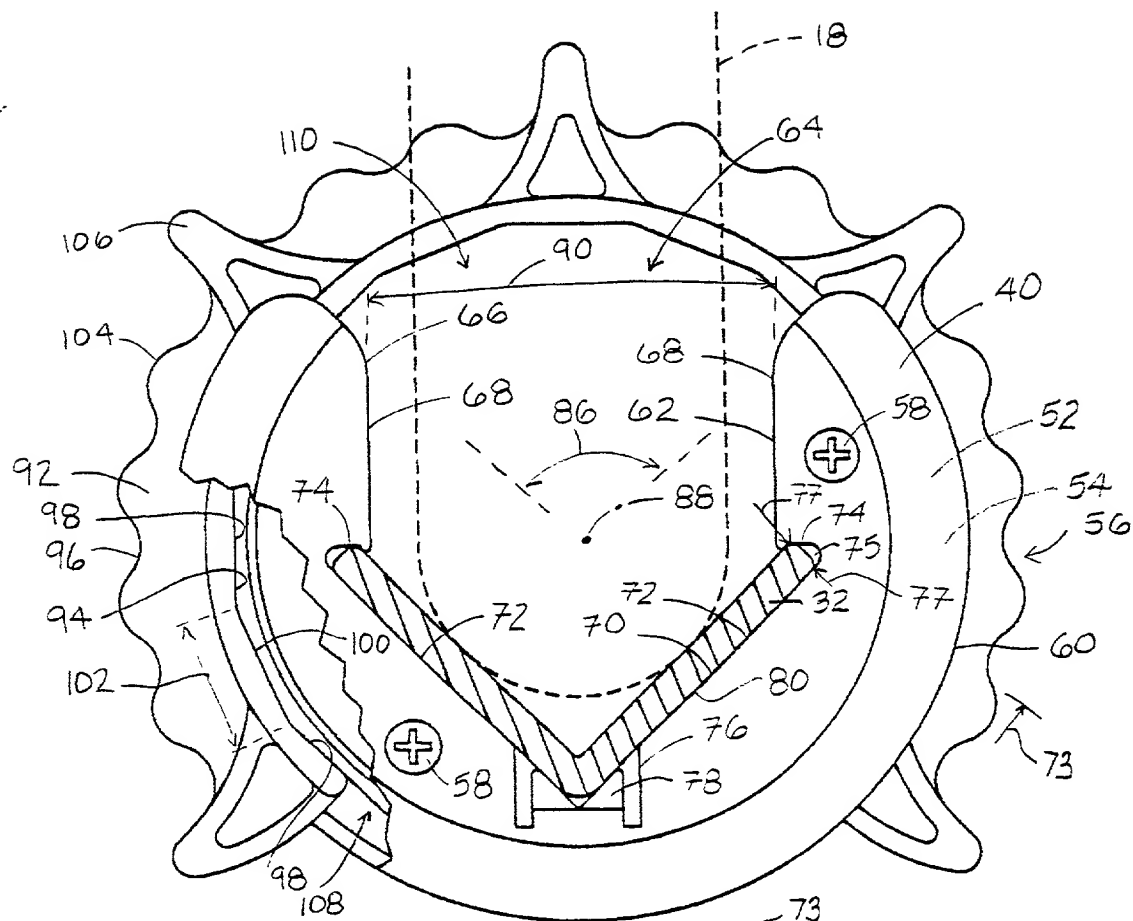


FIG. 2

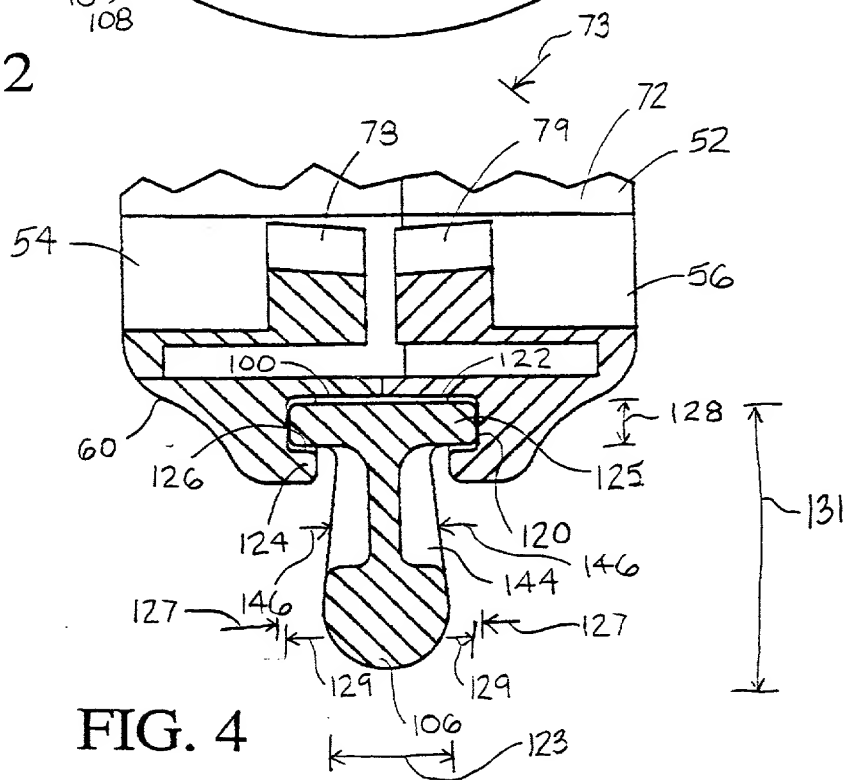


FIG. 4

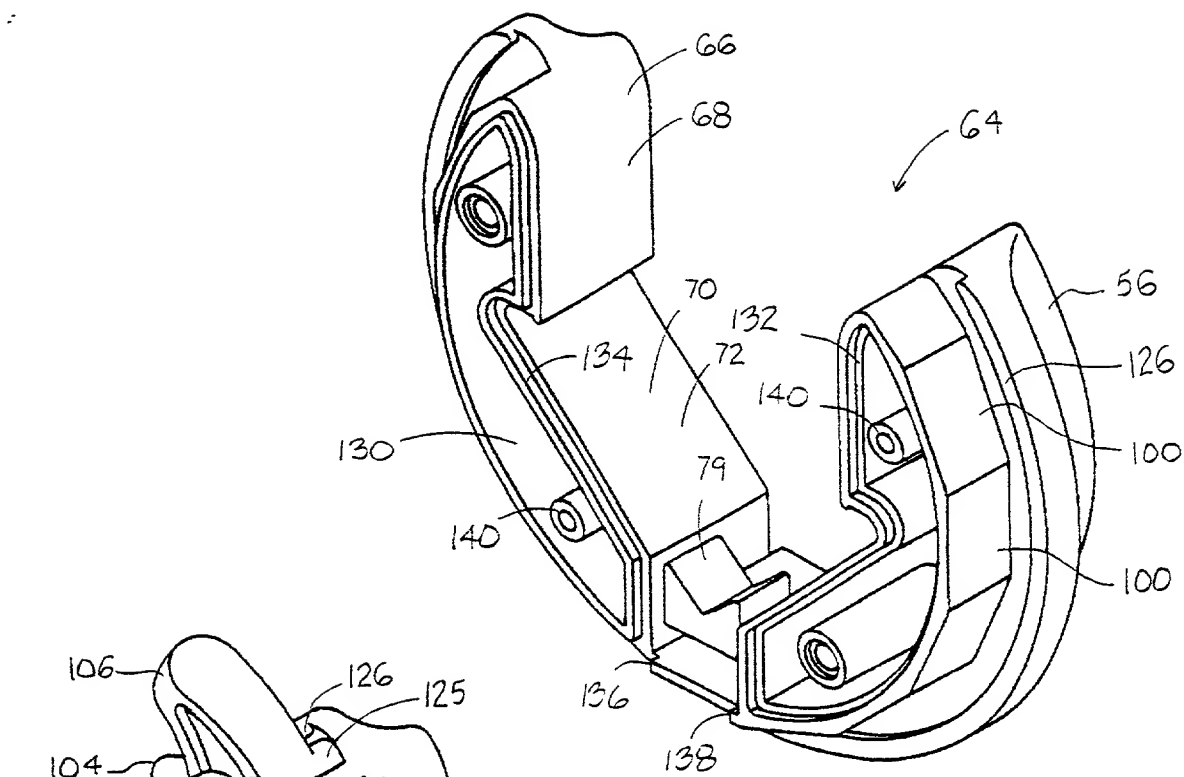


FIG. 5

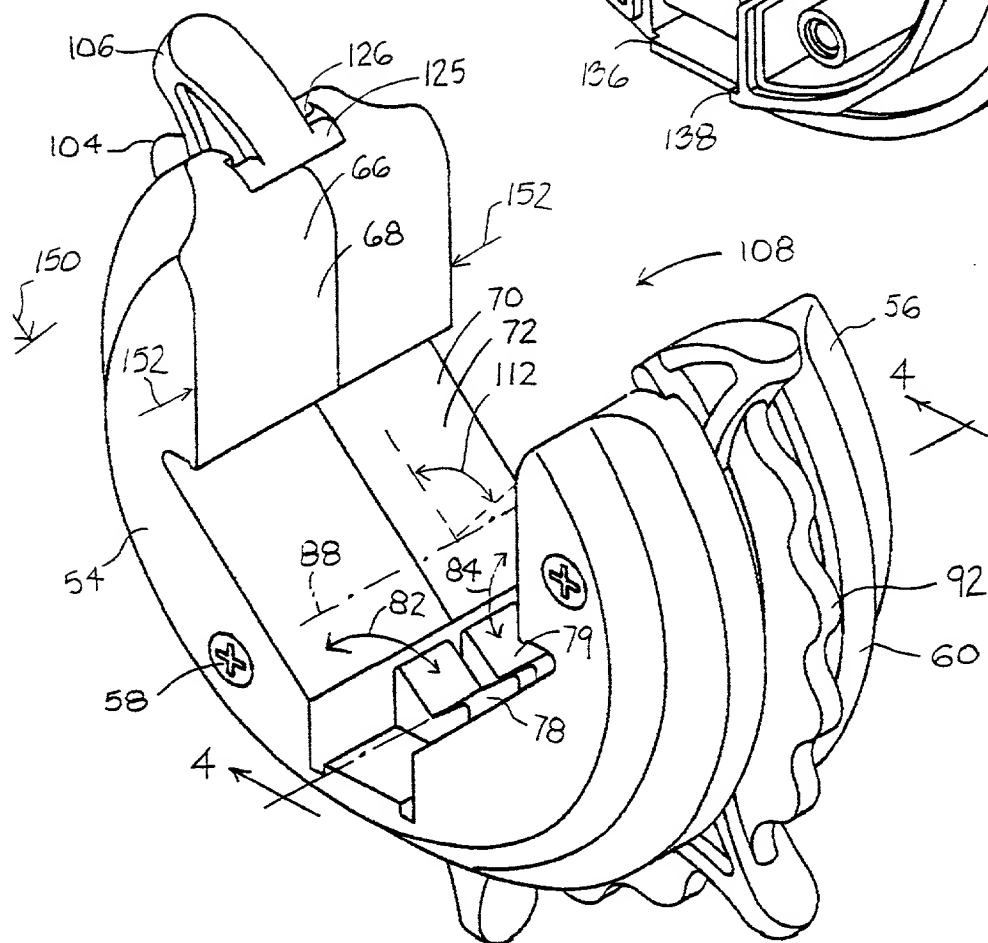


FIG. 3

**VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY
STATUS (37 CFR 1.9(f) AND 1.27 (c)) - SMALL BUSINESS CONCERN**

Docket No.
S-307

Serial No.

Filing Date

Patent No.

Issue Date

Applicant/ **MICHAEL K. REEVES**
Patentee:
Invention: **WHEEL RETENTION DEVICE**

I hereby declare that I am:

- ☐ the owner of the small business concern identified below:
- ☒ an official of the small business concern empowered to act on behalf of the concern identified below:

NAME OF CONCERN: Sportworks Northwest, Inc.ADDRESS OF CONCERN: 15500 Woodinville Redmond Road, NE, Woodinville, Washington 98072

I hereby declare that the above-identified small business concern qualifies as a small business concern as defined in 13 CFR 121.3-18, and reproduced in 37 CFR 1.9(d), for purposes of paying reduced fees under Section 41(a) and (b) of Title 35, United States Code, in that the number of employees of the concern, including those of its affiliates, does not exceed 500 persons. For purposes of this statement, (1) the number of employees of the business concern is the average over the previous fiscal year of the concern of the persons employed on a full-time, part-time or temporary basis during each of the pay periods of the fiscal year, and (2) concerns are affiliates of each other when either, directly or indirectly, one concern controls or has the power to control the other, or a third party or parties controls or has the power to control both.

I hereby declare that rights under contract or law have been conveyed to and remain with the small business concern identified above with regard to the above identified invention described in:

- ☒ the specification filed herewith with title as listed above.
- ☐ the application identified above.
- ☐ the patent identified above.

If the rights held by the above-identified small business concern are not exclusive, each individual, concern or organization having rights to the invention is listed on the next page and no rights to the invention are held by any person, other than the inventor, who could not qualify as an independent inventor under 37 CFR 1.9(c) or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

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Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under an obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

- ☒ no such person, concern or organization exists.
☐ each such person, concern or organization is listed below.

FULL NAME
ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME
ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME
ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

FULL NAME
ADDRESS

☐ Individual ☐ Small Business Concern ☐ Nonprofit Organization

Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereon, or any patent to which this verified statement is directed.

NAME OF PERSON SIGNING: Michael K. Reeves

TITLE OF PERSON SIGNING

OTHER THAN OWNER: President

ADDRESS OF PERSON SIGNING: Sportworks Northwest, Inc.
15500 Woodinville Road, NE
Woodinville, Washington 98072

SIGNATURE:

Michael K. Reeves

DATE:

9/8/97